

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A surface acoustic wave sensor comprising:
a sensor body having
 a central part and opposite smoothed edge zones outward of the central part;
 an antenna for the body,
 a transducer for converting electromagnetic waves at the antenna into mechanical waves which run along the sensor body;
 first reflectors on the sensor body and inward of the edge zones for together detecting changes in the spacing between the first reflectors due to change in the body; and
 additional reflectors arranged at one of the smoothed edge zones in order to reflect signals which are used for evaluation of the current temperature.
2. (previously presented) The surface acoustic wave sensor as claimed in claim 1, wherein the smoothed edge zone on which the additional reflectors are disposed has a length outward of the central part that corresponds to approximately three times the thickness of the material of the sensor body.
3. (previously presented) The surface acoustic wave sensor as claimed in claim 1, further comprising an adhesive on a surface of the sensor body by which the sensor is mounted on a substrate material to be measured.
4. (previously presented) The surface acoustic wave sensor as claimed in claim 3, wherein the smoothed edge zone has the surface but is an area without the adhesive.